
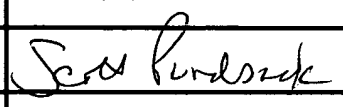


Copy

	Application Number	09/975,220
	Filing Date	October 11, 2001
	First Named Inventor	MAHENDRAN
	Art Unit	1723
	Examiner Name	KIM, Sun U.
Total Number of Pages in This Submission		Attorney Docket Number 4320-443

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Request for Certificate of Correction Return Receipt Postcard
<div style="float: right; text-align: center;"> Certificate SEP 29 2006 of Correction </div>		

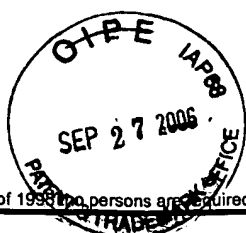
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm	Bereskin & Parr		
Signature			
Printed Name	Scott Pundsack		
Date	September 25, 2006	Reg. No.	47,330

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT - 2 2006



Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2006

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 100.00

Complete if Known

Application Number	09/975,220
Filing Date	October 11, 2001
First Named Inventor	MAHENDRAN et al.
Examiner Name	KIM, Sun U.
Art Unit	1723
Attorney Docket No.	4320-443

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: **022095** Deposit Account Name: **Bereskin & Parr**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims - 20 or HP = _____ x _____ = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims - 3 or HP = _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____ - 100 = _____	_____ / 50 = _____	(round up to a whole number) x _____	= _____	

4. OTHER FEE(S)

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge): Certificate of Correction	100.00

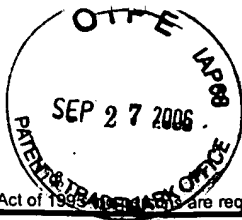
SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 47,330	Telephone (416) 364-7311
Name (Print/Type)	Scott Pundsack	Date September 25, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT - 2 2006



PTO/SB/17 (01-06)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995 (44 USC 3501-3509), the information on this form is required to respond to a collection of information unless it displays a valid OMB control number.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2006☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 100.00**Complete if Known**

Application Number	09/975,220
Filing Date	October 11, 2001
First Named Inventor	MAHENDRAN et al.
Examiner Name	KIM, Sun U.
Art Unit	1723
Attorney Docket No.	4320-443

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☐ Deposit Account Deposit Account Number: **022095** Deposit Account Name: **Bereskin & Parr**

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION** (All the fees below are due upon filing or may be subject to a surcharge.)**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims
- 20 or HP =	x	=		Fee (\$) Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP =	x	=	

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Certificate of Correction

Fees Paid (\$)

100.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 47,330	Telephone (416) 364-7311
Name (Print/Type)	Scott Pundsack	Date September 25, 2006	

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT. - 2 2006

Bereskin & Parr

INTELLECTUAL PROPERTY LAW



Patent No. : RE39,294
Reissued : September 19, 2006
Appl. No. : 09/975,220
Applicant : Mahendran et al.
Filed : October 11, 2001
Title : VERTICAL SKEIN OF HOLLOW FIBER MEMBRANES AND
METHOD OF MAINTAINING CLEAN FIBER SURFACES
WHILE FILTERING A SUBSTRATE TO WITHDRAW A
PERMEATE
TC./A.U. : 1723
Examiner : KIM, Sun U.
Docket No. : 4320-443
Customer No. : 001059

Confirmation No.: 7794

Certificate of Correction Branch
Honorable Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

September 25, 2006

REQUEST FOR CERTIFICATE OF CORRECTION

09/28/2006 LWONDIH1 00000022 RE39294

UNDER 35 U.S.C. 254 and 255

01 FC:1811

100.00 DP

Dear Sir:

In accordance with the provisions of 35 U.S.C. 254 and 255, the Patentee herein through his Attorney respectfully requests that a Certificate of Correction be issued in the above-referenced Patent. Patentee hereby requests that:

In the Front Pages

In the References Cited, "U.S. PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Patent No.	Date:	Name
5,403,479	4/1995	Smith et al.
5,480,553	1/1996	Yamamori et al.
5,607,593	3/1997	Cote et al.
RE37,549	02/2002	Mahendran et al.

Manulife Corporate Park, 6733 Mississauga Road, Suite 600, Mississauga, Ontario L5N 6J5

Tel: 905.812.3600 Fax: 905.814.0031 www.bereskinparr.com

TORONTO MISSISSAUGA WATERLOO MONTREAL

OCT - 2 2006

5,209,852	05/1993	Sunsoka et al.
4,756,875	07/1988	Tajima et al.
4,775,471	10/1988	Nagai et al.
4,075,100	02/1978	Furuta et al.
4,605,500	08/1986	Takemura et al.
4,707,268	11/1987	Shah et al.
4,876,006	10/1989	Ohkubo et al.
4,886,601	12/1989	Iwatsuka et al.
4,915,833	04/1990	Iwatsuka et al.
5,151,191	09/1992	Sunaoka et al.
5,192,456	03/1993	Ishida et al.
5,584,997	12/1997	Yagihashi et al.
5,643,455	07/1997	Kopp et al.
5,647,988	07/1997	Kawanishi et al.
5,451,317	09/1995	Ishida et al.
5,366,625	11/1994	Pedersen et al.
5,639,373	06/1997	Mahendran et al.
6,156,200	12/2000	Zha et al.

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Country Code	Document No.	Date
JP	61-107905	5/1986
JP	62-201610	9/1987
JP	63-143905	6/1988
SU	1,692,626	11/1991
EP	0 598 909 A1	06/1994
JP	61-192309	08/1986
JP	06-343837	12/1994
JP	04-247295	09/1992

WO	WO 98/28066	07/1998
EP	0734758	10/1996
WO	WO 96/07470	03/1996
WO	WO 93/23152	11/1993
JP	07-000770	01/1995
JP	02-164423	06/1990
JP	62-114609	05/1987
JP	62-004408	01/1987
JP	04-180821	06/1992
JP	04-197487	07/1992
JP	02-293093	12/1990
JP	07-136470	05/1995
JP	08-215548	08/1996
JP	S63-38884	10/1988
JP	07-024272	01/1995
JP	03-131324	06/1991
JP	07-185268	07/1995
JP	05-285349	11/1993
JP	62-250908	10/1987

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English translated abstract for Japanese Patent No. 63-143,905 issued June, 1998.

English language abstract of JP 61-192309

English language translation of JP 63-143,905

English language abstract of JP 06-343837

English language abstract of JP 04-247295

English language abstract of JP 07-000770

English language abstract of JP 02-164423

English language abstract of JP 62-114609

English language abstract of JP 62-004408

English language abstract of JP 04-180821

English language abstract of JP 04-197487

English language abstract of JP 02-293093

English language abstract of JP 07-136470

English language abstract of JP 08-215548

English language abstract of JP 61-107905

English language abstract of JP 07-024272

English language abstract of JP 03-131324

English language abstract of JP 62-201610

English language abstract of JP 07-185268

English language abstract of JP 05-285349

English language abstract of JP 62-250908

English language abstract of SU 1692626

"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. Yamamoto; M. Hiasa; T. Mahmood and T. Matsuo; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).

"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. Chiemchaisri, Y.K. Wong, T. Urase and K. Yamamoto, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992

"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)

"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)

"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230

"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURA Proceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368

"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994

ZeeWeed 145 Product Data Sheet

In the Claims

In claim 23, line 16, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 23, line 20, delete "permeate-collection" and substitute --permeate collection--.

In claim 23, line 35, delete "between".

In claim 25, column 33, line 64, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 25, column 34, line 3, delete "permeate-collection" and substitute --permeate collection--.

In claim 25, column 34, line 18, delete "between".

In claim 26, line 44, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 26, line 48, delete "permeate-collection" and substitute --permeate collection--.

In claim 26, line 63, delete "between".

In claim 29, column 35, line 32, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 29, column 35, line 36, delete "permeate-collection" and substitute --permeate collection--.

In claim 29, column 36, line 7, delete "between".

SEP 22 2006

Remarks

The errors in the References Cited section were an omission on the part of the Patent Office. Some of the omitted references were submitted by the Applicants in an Information Disclosure Statement filed on November 22, 2002, considered by the Examiner on January 14, 2004 and returned to the Applicants with an Office Action mailed March 20, 2003. Copies of this Office Action and initialed Information Disclosure Statement are attached to this request. The Applicants note that these documents are also not contained in the Image File Wrapper for this application and request that they be added to the Image File Wrapper. The remainder of the omitted references were listed on a Notice of References Cited prepared by the Examiner on form PTO-892, copy attached, which was enclosed with an Office Action mailed July 23, 2002.

The errors in the claims were caused by the Applicants. The initial portion of claims 23, 25, 26 and 29 were copied from claim 1 and should be the same as claim 1. However, the errors to be corrected were made.

The Patentee submits that the errors in the claims relate to minor typographical mistakes which occurred in good faith. The Applicants further submit that correction of the errors will not introduce new matter or require re-examination.

A Certificate of Correction incorporating the above changes is enclosed herewith in duplicate.

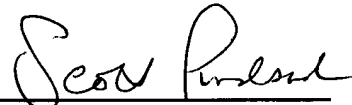
The government fee of \$100.00 is included in our firm's cheque. If additional fees are required, the Commissioner is hereby authorized to charge the fees to our Deposit Account No. 02-2095.

Patent No. RE39,294
Appl. No. 09/975,220
Amdt. Dated September 22, 2006

The Applicants respectfully request that a timely Certificate of Correction be issued in this case.

Respectfully submitted,

Mahendran et al.

By 

Scott Pundsack
Reg. No. 47,330
Tel: (416) 957-1698

SEP - 2 2006



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,220	10/11/2001	Mailvaganam Mahendran	ZEN-9501RE-A	7794

1059 7590 03/20/2003

BERESKIN AND PARR
SCOTIA PLAZA
40 KING STREET WEST-SUITE 4000 BOX 401
TORONTO, ON M5H 3Y2
CANADA

4720-423

EXAMINER

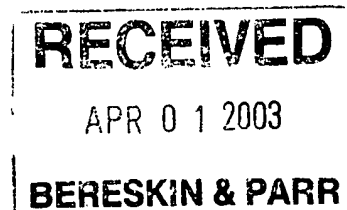
KIM, SUN U

ART UNIT PAPER NUMBER

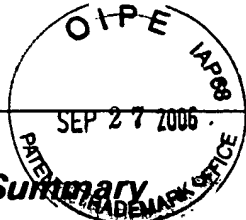
1723

DATE MAILED: 03/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



OCT - 2 2006



AS-14

Office Action SummaryApplication No.
09/975,220Applicant(s)
Mahendran et al.Examiner
John KimArt Unit
1723

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.138 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

P.O. Ent. June, 20, 2003.26

Status

- 1) ☒ Responsive to communication(s) filed on 11/21/02, 1/29/03, 2/6/03.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

OCT - 2 2003

Art Unit: 1723

1. The specification is objected to because of the following:

If applicant files more than one application for the reissue of a single patent, each such application must contain or be amended to contain in the first sentence of the specification a notice stating that more than one reissue application has been filed and identifying each of the reissue applications by relationship, application number and filing date. See 37 CFR 1.177(a).

Suggested notice is as follows:

“Application 09/975,220 filed October 11, 2001, and copending application 09/333,669 filed June 15, 1999, are each reissues of U.S. Patent No. 5,639,373 (Application No. 08/514,119 filed August 11, 1995).”

Appropriate correction is required.

2. The terminal disclaimer filed on 11/21/02 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 5,783,083 and RE37,549 and any patent granted on pending Application No. 09/621,234 and Application No. 09/849,573 and Application No. 10/178,838 has been reviewed and is accepted. The terminal disclaimer has been recorded.

3. In accordance with 37 CFR 1.175(b)(1), a supplemental reissue oath/declaration under 37 CFR 1.175(b)(1) must be received before this reissue application can be allowed.

Claims 1-30 are rejected as being based upon a defective declaration under 35 U.S.C. 251. See 37 CFR 1.175. The nature of the defect is set forth above.

OCT - 2 2001

Art Unit: 1723

Receipt of an appropriate supplemental oath/declaration under 37 CFR 1.175(b)(1) will overcome this rejection under 35 U.S.C. 251. An example of acceptable language to be used in the supplemental oath/declaration is as follows:

"Every error in the patent which was corrected in the present reissue application, and is not covered by a prior oath/declaration submitted in this application, arose without any deceptive intention on the part of the applicant."

4. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.
5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

OCT - 2 2006

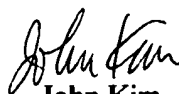
Art Unit: 1723

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Kim whose telephone number is (703) 308-2350. The examiner can normally be reached on weekdays from 7:00 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker, can be reached on (703) 308-0457. The fax phone number for official response after final action is (703) 872-9311, and the fax phone number for all other official faxes is (703) 872-9310.

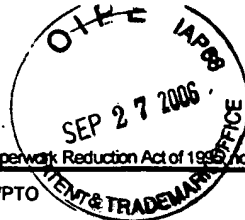
When sending a draft amendment by fax, please mark the paper as "DRAFT"; otherwise, mark the paper "OFFICIAL". This will expedite the processing of the paper.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.


John Kim
Primary Examiner
Art Unit 1723

J. Kim
February 21, 2003

OCT - 2 2003



#6

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/975,220
Filing Date	October 11, 2001
First Named Inventor	MAHENDRAN
Group Art Unit	1723
Examiner Name	KIM, Sun U
Attorney Docket Number	4320-443

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JK		US-RE37,549	Feb 19, 2002	Mahendran et al.	
		US-5,209,852	May 11, 1993	Sunsoka et al.	
		US-4,756,875	Jul 12, 1988	Tajima et al.	
		US-4,775,471	Oct 4, 1988	Nagai et al.	
		US-4,075,100	Feb 21, 1978	Furuta et al.	
		US-4,605,500	Aug 12, 1986	Takemura et al.	
		US-4,707,268	Nov 17, 1987	Shah et al.	
		US-4,876,006	Oct 24, 1989	Ohkubo et al.	
		US-4,886,601	Dec 12, 1989	Iwatsuka et al.	
		US-4,915,833	Apr 10, 1990	Iwatsuka et al.	
		US-5,151,181	Sep 29, 1992	Sunaoka et al.	
		US-5,192,456	Mar 9, 1993	Ishida et al.	
		US-5,584,997	Dec 17, 1997	Yagihashi et al.	
		US-5,643,455	Jul 1, 1997	Kopp et al.	
		US-5,647,988	Jul 15, 1997	Kawanishi et al.	
		US-5,451,317	Sep 19, 1995	Ishida et al.	
		US-5,366,625	Nov 22, 1994	Pedersen et al.	
		US-5,639,373	June 17, 1997	Mahendran et al.	
		US-6,156,200	Dec 5, 2000	Zha et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JK		EP 0 588 909 A1	June 1, 1994	Yamamori et al.		
		JP 62-144712	June 27, 1987	Yuichi et al.		
		English language abstract of JP 62-144712				
		JP 61-192309	Aug 26, 1986	Toshiaki		
		English language abstract of JP 61-192309				
		JP 63-143905	June 16, 1988	Kunio et al.		✓
		English language translation of JP 63-143905				
		JP 06-343837	Dec 20, 1994	Giichi		
		English language abstract of JP 06-343837				
		JP 04-247295	Sep 3, 1992	Osamu et al.		
JK		English language abstract of JP 04-247295				

Examiner
Signature

JKim

Date
Considered

1/14/03

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

² Applicant's unique citation designation number (optional). ³ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SEP 2 2005

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/975,220
				Filing Date	October 11, 2001
				First Named Inventor	MAHENDRAN
				Group Art Unit	1723
				Examiner Name	KIM, Sun U
(use as many sheets as necessary)				Attorney Docket Number	4320-443
Sheet	2	of	4		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)					
JK		WO 98/28066		Jul 2, 1998	Memtec America Corp.		
		EP 0734758		Oct 2, 1996	Mitsui petro chemical Industries Ltd		
		WO 96/07470		Mar 14, 1996	Memtec Limited		
		WO 93/23152		Nov 25, 1993	Minntech Corp.		
		JP 07-000770		Jan 8, 1995	Toshiba Corp		
		English language abstract of JP 07-000770					
		JP 02-164423		Jun 25, 1990	Toshiba Corp		
		English language abstract of JP 02-164423					
		JP 62-114609		May 26, 1987	Ebara Corp		
		English language abstract of JP 62-114609					
		JP 62-004408		Jan 10, 1987	Toshiba Corp		
JY		English language abstract of JP 62-004408					

Examiner Signature	<i>JK</i>	Date Considered	1/14/03
-----------------------	-----------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 4

Complete if Known

Application Number	09/975,220
Filing Date	October 11, 2001
First Named Inventor	MAHENDRAN
Group Art Unit	1723
Examiner Name	KIM, Sun U
Attorney Docket Number	4320-443

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JK		JP 04-180821	June 29, 1992	Giichi et al.		
		English language abstract of JP 04-180821				
		JP 04-197487	July 17, 1992	Noboru et al.		
		English language abstract of JP 04-197487				
		JP 02-293093	May 8, 1990 12/1/99	Hidenori et al.		
		English language abstract of JP 02-293093				
		JP 07-136470	Nov 12, 1993 5/1/95	Kenji et al.		✓
		English language abstract of JP 07-136470				
		JP 08-215548	Aug 27, 1996	Kenji et al.		✓
		English language abstract of JP 08-215548				
		JP 61-107905	May 26, 1986	Makoto		
		English language abstract of JP 61-107905				
		JP 62-004408	Jan 10, 1987	Tomohiko		
		English language abstract of JP 62-004408				
		JP S63-38884	July 8, 1988 10/1/98	Kikuchi		✓
		JP 07-024272	Jan 27, 1995	Masumi et al.		
		English language abstract of JP 07-024272				
		JP 03-131324	June 4, 1991	Satoshi et al.		
		English language abstract of JP 03-131324				
		JP 62-201610	Sep 9, 1987	Yukio		
		English language abstract of JP 62-201610				
		JP 07-185268	July 25, 1995	Kashi et al.		✓
		English language abstract of JP 07-185268				
		JP 05-285349	Nov 2, 1993	Tetsuro et al.		✓
		English language abstract of JP 05-285349				
		JP 62-250908	Oct 31, 1987	Yokoyama		
		English language abstract of JP 62-250908				
		SU 1692626	Nov 23, 1991	Gimranov et al.		✓
JK		English language abstract of SU 1692626				

Examiner
Signature

JKim

Date
Considered

1/14/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

OCT - 2 2006

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

4

of

4

Complete if Known

Application Number	09/975,220
Filing Date	October 11, 2001
First Named Inventor	MAHENDRAN
Group Art Unit	1723
Examiner Name	KIM, Sun U
Attorney Docket Number	4320-443

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JK		"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. YAMAMOTO; M. HIASA; T. MAHMOOD AND T. MATSUO; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).	
		"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. CHIEMCHAI SRI, Y.K. WONG, T. URASE AND K. YAMAMOTO, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992	
		"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)	
		"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAI SRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)	
		"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230	
		"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURA Proceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368	
		"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994	
JK		ZeeWeed 145 Product Data Sheet (1994)	

Examiner
Signature

JK Kim

Date
Considered

1/14/03

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

OCT - 2 2003

Notice of References Cited

Application/Control No.
09/975,220

Applicant(s)/Patent Under Reexam
Mahendran et al.

Examiner
John Kim

Art Unit
1723

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Name	Classification ²	
x	A	3,708,071	1/1973	Crowley et al.	210	500.23
x	B	4,647,377	3/1987	Miura et al.	210	500.23
x	C	5,248,424	9/1993	Cote et al.	210	636
x	D	5,403,479	4/1995	Smith et al.	210	636
x	E	5,480,553	1/1996	Yamamori et al.	210	650
x	F	5,607,593	3/1997	Cote et al.	210	650
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY ¹	Country	Name	Classification ²	
x	N	61-107905	5/1986	Japan	-----	210	500.23
x	O	62-201610	9/1987	Japan	-----	210	500.23
x	P	63-143905	6/1988	Japan	-----	-----	-----
x	Q	1,692,626	11/1991	Soviet Union	-----	210	500.23
	R						
	S						
	T						

NON-PATENT DOCUMENTS

*		Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
x	U	English translated abstract for Japanese Patent No. 63-143,905 issued June, 1988.
	V	
	W	
	X	

¹ A copy of this reference is not being furnished with this Office action. See MPEP § 707.05(a). ² Dates in MM-YYYY format are publication dates. ³ Classifications may be U.S. or foreign.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 1 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "U.S. PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Patent No.	Date:	Name
5,403,479	4/1995	Smith et al.
5,480,553	1/1996	Yamamori et al.
5,607,593	3/1997	Cote et al.
RE37,549	02/2002	Mahendran et al.
5,209,852	05/1993	Sunsoka et al.
4,756,875	07/1988	Tajima et al.
4,775,471	10/1988	Nagai et al.
4,075,100	02/1978	Furuta et al.
4,605,500	08/1986	Takemura et al.
4,707,268	11/1987	Shah et al.
4,876,006	10/1989	Ohkubo et al.
4,886,601	12/1989	Iwatsuka et al.
4,915,833	04/1990	Iwatsuka et al.
5,151,191	09/1992	Sunaoka et al.
5,192,456	03/1993	Ishida et al.
5,584,997	12/1997	Yagihashi et al.
5,643,455	07/1997	Kopp et al.
5,647,988	07/1997	Kawanishi et al.
5,451,317	09/1995	Ishida et al.
5,366,625	11/1994	Pedersen et al.
5,639,373	06/1997	Mahendran et al.
6,156,200	12/2000	Zha et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 2 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

Country Code	Document No.	Date
JP	61-107905	5/1986
JP	62-201610	9/1987
JP	63-143905	6/1988
SU	1,692,626	11/1991
EP	0 598 909 A1	06/1994
JP	61-192309	08/1986
JP	06-343837	12/1994
JP	04-247295	09/1992
WO	WO 98/28066	07/1998
EP	0734758	10/1996
WO	WO 96/07470	03/1996
WO	WO 93/23152	11/1993
JP	07-000770	01/1995
JP	02-164423	06/1990
JP	62-114609	05/1987
JP	62-004408	01/1987
JP	04-180821	06/1992
JP	04-197487	07/1992
JP	02-293093	12/1990

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT - 2 2006

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 3 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "FOREIGN PATENT DOCUMENTS" section, spanning pages 1 and 2, the following references be added:

JP	07-136470	05/1995
JP	08-215548	08/1996
JP	S63-38884	10/1988
JP	07-024272	01/1995
JP	03-131324	06/1991
JP	07-185268	07/1995
JP	05-285349	11/1993
JP	62-250908	10/1987

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English translated abstract for Japanese Patent No. 63-143,905 issued June, 1998.

English language abstract of JP 61-192309

English language translation of JP 63-143,905

English language abstract of JP 06-343837

English language abstract of JP 04-247295

English language abstract of JP 07-000770

English language abstract of JP 02-164423

English language abstract of JP 62-114609

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

OCT - 2 2006

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 4 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

English language abstract of JP 62-004408

English language abstract of JP 04-180821

English language abstract of JP 04-197487

English language abstract of JP 02-293093

English language abstract of JP 07-136470

English language abstract of JP 08-215548

English language abstract of JP 61-107905

English language abstract of JP 07-024272

English language abstract of JP 03-131324

English language abstract of JP 62-201610

English language abstract of JP 07-185268

English language abstract of JP 05-285349

English language abstract of JP 62-250908

English language abstract of SU 1692626

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

NOT - 2 2006

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 5 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In the References Cited, "OTHER PUBLICATIONS" section, spanning pages 1 and 2, the following references be added:

"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. Yamamoto; M. Hiasa; T. Mahmood and T. Matsuo; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).

"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. Chiemchaisri, Y.K. Wong, T. Urase and K. Yamamoto, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992

"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)

"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)

"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IWA and WRC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230

"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURA Proceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368

"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994

ZeeWeed 145 Product Data Sheet

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

CCT - 2 2006

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : RE39,294

Page 6 of 6

APPLICATION NO. : 09/975,220

ISSUE DATE : September 19, 2006

INVENTOR(S) : MAHENDRAN et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

In claim 23, line 16, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 23, line 20, delete "permeate-collection" and substitute --permeate collection--.

In claim 23, line 35, delete "between".

In claim 25, column 33, line 64, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 25, column 34, line 3, delete "permeate-collection" and substitute --permeate collection--.

In claim 25, column 34, line 18, delete "between".

In claim 26, line 44, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 26, line 48, delete "permeate-collection" and substitute --permeate collection--.

In claim 26, line 63, delete "between".

In claim 29, column 35, line 32, delete the first and second instance of "a," and substitute --said-- for each instance.

In claim 29, column 35, line 36, delete "permeate-collection" and substitute --permeate collection--.

In claim 29, column 36, line 7, delete "between".

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Bereskin & Parr
Box 401, 40 King Street West
Toronto, Ontario, M5H 3Y2, Canada

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

2006 - 2